

PD990017

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims

1. (Canceled)
2. (Currently Amended) A method for assembling data packets for isochronous data transmission via a data bus, a data format for the isochronous data transmission being defined in an isochronous data format header of a bus packet, comprising the steps of: writing the isochronous data format header to a special register and to a buffer memory for the data packets when the isochronous data transmission is set up in a data transmitting device;  
attaching useful data of the data packet to the isochronous data format header in the buffer memory; and  
taking both the isochronous data format header and the useful data from said buffer memory for data transmission; The method according to Claim 1, in which the isochronous data format header contains containing a comparison value for data counting, in particular data block counting, further comprising the steps of:  
updating the comparison value for data counting in the isochronous data format header, which is entered in the special register, when the data of said data packet are written to the buffer memory; and  
copying the updated isochronous data format header to the buffer memory at a next free location for a data packet, after completion of said data packet in the buffer memory.
3. (Previously Amended) The method according to Claim 2, comprising the further step of performing data block counting in units of data blocks, wherein the comparison value for counting data in the isochronous data format header relates to the first data block in the data packet.

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4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Currently Amended) An apparatus for performing a method for assembling data packets for isochronous data transmission via a data bus, a data format for the isochronous data transmission being defined in an isochronous data format header of a bus packet, comprising the steps of:  
writing the isochronous data format header to a special register and to a buffer memory for the data packets when the isochronous data transmission is set up in a data transmitting device;  
attaching useful data of the data packet to the isochronous data format header in the buffer memory; and  
taking both the isochronous data format header and the useful data from said buffer memory for data transmission;  
wherein said special register, for the isochronous data format header of one of said data packets, has initialization means which copy the isochronous data format header for a first data packet of the isochronous data transmission to the special register for the isochronous data format header and the buffer memory and transmission means for reading both the isochronous data format and useful data from said buffer memory for data transmission. The  
the apparatus according to Claim 6, which furthermore has comprising a data block counter, by which the data blocks of the isochronous data transmission are counted, and in which a memory management unit is provided, which transfers a counter reading of the data block counter after the counting of the data blocks of said one of said data packets to the isochronous data format header stored in the special register, and copies

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the isochronous data format header that has been updated in this way in the special register to the buffer memory at a beginning of the next free location for said one of said data packets.

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) A method for assembling data packets for data transmission via a data bus, the method comprising:

writing a data header to a special register and to a selected portion of a buffer memory for said data packets;

appending useful data in a form of data blocks to said data header located in said buffer memory; and

taking both the data header and the useful data from said buffer memory for data transmission

wherein said data header further comprises a comparison value for counting data blocks, The method according to Claim 12, said method further comprising:

updating said comparison value in said data header in said special register when said useful data in data blocks are written to said buffer memory; and

copying said updated data header to said buffer memory at a next free location for a data packet in said buffer memory.

14. (Previously Presented) The method according to Claim 13, wherein said comparison value is a number of data blocks, and further wherein said comparison value relates to the first data block in said data packet.

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15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Currently Amended) An apparatus for assembling data packets for data transmission via a data bus, comprising:

a buffer memory for the assembly of data packets;

a special register for storing a data header of a first one of said data packets;

an initialization means for copying said data header for said first data packet to said special register and to said buffer memory; and

transmission means for reading both the data header and useful data from said buffer memory for data transmission ~~The apparatus according to Claim 18, further comprising~~

a data block counter, by which data blocks of said data packet are counted, and wherein said data block counter transfers a count in said data block counter to said data header stored in said special register, and further wherein said count in said special register is copied to said buffer memory at a next free location.

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled).

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25. (Previously Amended) An apparatus for assembling data packets for isochronous data transmission via a data bus, comprising:

- a buffer memory for data packets;
- a special register for an isochronous data format header of one of said data packets;
- initialization means, which copy the isochronous data format header for a first data packet of the isochronous data transmission to the special register for the isochronous data format header and the buffer memory; and
- a data block counter, by which the data blocks of the isochronous data transmission are counted, and in which a memory management unit is provided, which transfers a counter reading of the data block counter after the counting of the data blocks of said one of said data packets to the isochronous data format header stored in the special register, and copies the isochronous data format header that has been updated in this way in the special register to the buffer memory at the beginning of the next free location for said one of said data packets.

26. (Canceled)

27 (Previously Presented) An apparatus for assembling data packets for data transmission via a data bus, comprising:

- a buffer memory for the assembly of data packets;
- a special register for storing a data header of a first one of said data packets;
- an initialization means for copying said data header for said first data packet to said special register and to said buffer memory; and
- a data block counter, by which data blocks of said data packet are counted, and wherein said data block counter transfers a count in said data block counter to said data header stored in said special register, and further wherein said count in said special register is copied to said buffer memory at a next free location.